```
     (FILE 'HOME' ENTERED AT 22:53:25 ON 04 SEP 2003)

     FILE 'REGISTRY' ENTERED AT 22:53:50 ON 04 SEP 2003
                E TETRACYCLINE/CN
L1            1 S E3
                E MINOCYCLINE/CN
L2            2 S E2-E5
                E DOXYCYCLINE/CN
L3            1 S E3

     FILE 'HCAPLUS' ENTERED AT 22:55:27 ON 04 SEP 2003
L4            3 S (L1 OR L2 OR L3)(P)CATARACT?

     FILE 'STNGUIDE' ENTERED AT 23:01:22 ON 04 SEP 2003

     FILE 'HCAPLUS' ENTERED AT 23:13:58 ON 04 SEP 2003
L5           82 S (DEDIMETHYL(2A)AMINO(2A)TETRACYCLIN? OR DEDIMETHYLAMINOTETRAC
L6            1 S (DEDIMETHYL(2A)AMINO(2A)TETRACYCLIN? OR DEDIMETHYLAMINOTETRAC
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=> s (l1 or l2 or l3)(p)cataract?
         13549 L1
          1984 L2
          3005 L3
          6826 CATARACT?
L4           3 (L1 OR L2 OR L3)(P)CATARACT?

=> d l4 abs ibib kwic hitrn 1-3

L4   ANSWER 1 OF 3  HCAPLUS  COPYRIGHT 2003 ACS on STN
AB   Methods of reducing the risk of cataract development in a mammal are
     provided and include administering to the mammal an effective amt. of a
     tetracycline deriv.  A preferred tetracycline deriv. is
     6.alpha.-deoxy-5-hydroxy-4-dedimethylaminotetracycline.
ACCESSION NUMBER:         2000:227458  HCAPLUS
DOCUMENT NUMBER:          132:260702
TITLE:                    Tetracycline derivatives for inhibition of cataract
                          formation
INVENTOR(S):              Ryan, Maria Emanuel; Golub, Lorne M.; Ramamurthy,
                          Nungavaram S.
PATENT ASSIGNEE(S):       The Research Foundation of State University of New
                          York, USA
SOURCE:                   PCT Int. Appl., 38 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
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     WO 2000018353      A2   20000406       WO 1999-US22354  19990928
     WO 2000018353      A3   20000706
         W:  AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
             CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
             IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD,
             MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,
             SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ,
             BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
             DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
             CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     CA 2343038         AA   20000406       CA 1999-2343038  19990928
     EP 1124558         A2   20010822       EP 1999-949910   19990928
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
     JP 2002525299      T2   20020813       JP 2000-571875   19990928
     AU 759372          B2   20030410       AU 1999-62684    19990928
PRIORITY APPLN. INFO.:                   US 1998-102056P  P  19980928
                                         WO 1999-US22354  W  19990928
OTHER SOURCE(S):          MARPAT 132:260702
IT   60-54-8, Tetracycline 60-54-8D, Tetracycline, derivs.
     564-25-0   2444-65-7, CMT-1   2444-65-7D, derivs.   4199-33-1,
     CMT-2   4199-36-4   4199-36-4D, derivs.   4632-89-7, CMT-4
     10118-90-8, Minocycline   15866-90-7, CMT-3   27720-34-9, CMT 6
     36391-64-7, CMT-7   52749-95-8   88828-25-5, CMT-8   130640-55-0
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137453-88-4 137453-91-9 145031-44-3, CMT 5 180002-76-0, CMT-10
209742-23-4, CMT-9 249888-78-6 263258-24-8 263258-25-9 263258-26-0
263258-27-1 263258-27-1D, acyl derivs. 263258-28-2 263258-29-3
263258-30-6 263258-30-6D, acyl derivs. 263258-31-7D, acyl derivs.
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263259-05-8 263259-05-8D, acyl derivs. 263259-06-9 263259-07-0
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263259-61-6 263259-62-7 263259-62-7D, acyl derivs. 263259-63-8
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(tetracycline derivs. for inhibition of **cataract** formation)

IT **60-54-8**, Tetracycline **60-54-8D**, Tetracycline, derivs.
564-25-0 10118-90-8, Minocycline
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(tetracycline derivs. for inhibition of **cataract** formation)

L4 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2003 ACS on STN
AB Kynurenine derivs., harmane (.beta.-carboline), and tetracycline hydrochloride, known photosensitizers of cataractogenesis in lens,

produced singlet O (1O2) under photoexcitation in air-satd. aq. (D2O) soln. The quantum yields of the 1O2 generation by these substances are detd. It is suggested that 1O2 might take part in cataractogenesis.

ACCESSION NUMBER: 1987:212011 HCAPLUS
DOCUMENT NUMBER: 106:212011
TITLE: Photosensitized generation of singlet molecular oxygen by endogenous photosensitizers of the human lens
AUTHOR(S): Egorov, S. Yu.; Babizhaev, M. A.; Krasnovsky, A. A., Jr.; Shvedova, A. A.
CORPORATE SOURCE: Biol. Dep., M. V. Lomonosov Moscow State Univ., Moscow, USSR
SOURCE: Biofizika (1987), 32(1), 169-71
CODEN: BIOFAI; ISSN: 0006-3029
DOCUMENT TYPE: Journal
LANGUAGE: Russian
IT **60-54-8** 343-65-7 484-78-6 492-27-3 108490-82-0
RL: BIOL (Biological study)
(singlet oxygen photosensitized generation induction by, of human eye lens, **cataract** formation in relation to)
IT **60-54-8**
RL: BIOL (Biological study)
(singlet oxygen photosensitized generation induction by, of human eye lens, **cataract** formation in relation to)

L4 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2003 ACS on STN
AB Application of lidase to burn-induced rabbit corneal **cataracts** decreased the no. of acid mucopolysaccharides formed. Collagenase treatment caused thinning and then disappearance of the fibrous structures. Visual activity increased in 6 of 8 rabbit eyes treated with lidase plus tetracycline [**60-54-8**] ointment. Collagenase plus tetracycline increased visual acuity in 57.5% of the eyes treated, but did not affect intraocular pressure or the field of vision.

ACCESSION NUMBER: 1972:30596 HCAPLUS
DOCUMENT NUMBER: 76:30596
TITLE: Effectiveness of using lidase and collagenase for treating corneal opacity
AUTHOR(S): Smirnov, I. V.
CORPORATE SOURCE: USSR
SOURCE: Makro- Mikrostrukt. Tkanei Norme, Patol. Eksp. (1969), 34-43. Editor(s): Gordon, D. S. Chuvash. Gos. Univ.: Cheboksary, USSR.
CODEN: 24APA3
DOCUMENT TYPE: Conference
LANGUAGE: Russian
AB Application of lidase to burn-induced rabbit corneal **cataracts** decreased the no. of acid mucopolysaccharides formed. Collagenase treatment caused thinning and then disappearance of the fibrous structures. Visual activity increased in 6 of 8 rabbit eyes treated with lidase plus tetracycline [**60-54-8**] ointment. Collagenase plus tetracycline increased visual acuity in 57.5% of the eyes treated, but did not affect intraocular pressure or. . .
IT **60-54-8**
RL: BIOL (Biological study)
(in corneal **cataract** treatment with collagenase and lidase)
IT **60-54-8**
RL: BIOL (Biological study)
(in corneal **cataract** treatment with collagenase and lidase)

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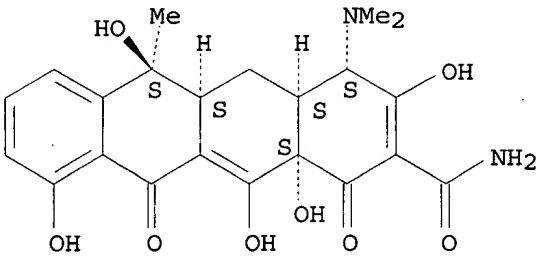
Delacroix

=> d l1

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS on STN
RN 60-54-8 REGISTRY
CN 2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,6,10,12,12a-pentahydroxy-6-methyl-1,11-dioxo-, (4S,4aS,5aS,6S,12aS)-(9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,6,10,12,12a-pentahydroxy-6-methyl-1,11-dioxo-, [4S-(4.alpha.,4a.alpha.,5a.alpha.,6.beta.,12a.alpha.)]-
CN 2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,6,10,12,12a-pentahydroxy-6-methyl-1,11-dioxo- (7CI, 8CI)
OTHER NAMES:
CN (-)-Tetracycline
CN Abramycin
CN Achromycin
CN Achromycin (naphthacene derivative)
CN Agromicina
CN Ambramicina
CN Ambramycin
CN Bio-Tetra
CN Biocycline
CN Ciclibion
CN Cyclomycin
CN Cytome
CN Deschlorobiomycin
CN Enterocycline
CN Limecycline
CN Medocycline
CN Mericycline
CN Micycline
CN Neocycline
CN NSC 108579
CN Omegamycin
CN Orlycycline
CN Panmycin
CN Polycycline
CN Polycycline (antibiotic)
CN Resteclin
CN Roviciclina
CN Sumycin syrup
CN Tetra-Co
CN **Tetracycline**
CN Tetradecin
CN Tetrafil
CN Veracin
CN Vetacyclinum
FS STEREOSEARCH
DR 6591-49-7
MF C22 H24 N2 O8
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DIOGENES, DRUGU, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PHAR, PHARMASEARCH, PIRA, PROMT,

RTECS*, SPECINFO, TOXCENTER, USAN, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)
Other Sources: EINECS**, WHO
(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry. Rotation (-).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

13508 REFERENCES IN FILE CA (1937 TO DATE)
687 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
13532 REFERENCES IN FILE CAPLUS (1937 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)